

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the pending application. The non-final Office Action dated May 25, 2010 has been received and its contents carefully reviewed.

Claims 1 and 13 are hereby amended. No new matter has been added. Also, claims 3, 4, 8-12, 14 and 16-22 were previously cancelled. Accordingly, claims 1, 2, 5-7, 13 and 15 are currently pending. Reexamination and reconsideration of the pending claims are respectfully requested.

In the final Office Action, Claims 1, 2, 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki (U.S. Patent No. 6,369,786, hereinafter, referred as Suzuki) in view of Morita (U.S. Patent No. 6,369,786, hereinafter, referred as Morita), Kimura (US Pub: 2002/0105279, hereinafter referred as Kimura), and Koyama (US Pub. 2002/0011796, hereinafter referred as Kimura), and claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki in view of Morita, Kimura, and Koyama, further in view of Ishizuka et al. (U.S. Patent No. 6,756,951, hereinafter, referred as Ishizuka).

The rejection of claims 1, 2, 5-7, 13 and 15 are respectfully traversed and reconsideration is requested.

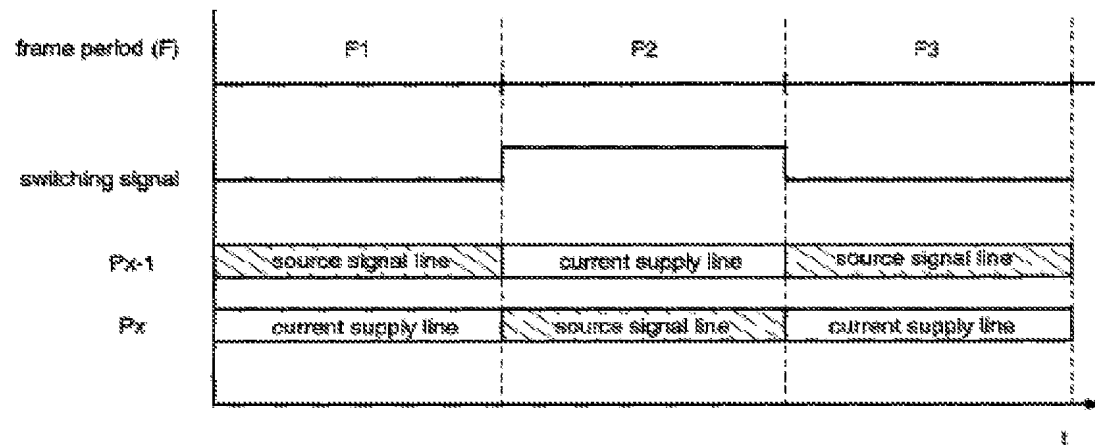
Applicants respectfully submit that claims 1 and 13 are patentable over Suzuki, Morita and Ishizuka. **Independent Claim 1** recites an electro-luminescence display device having a combination of elements including, for example, “a gamma driver that generates a plurality of gamma voltage signals corresponding to image data and a plurality of gamma current signals corresponding to the image data; and a plurality of data driving circuits that apply the plurality of gamma voltage signals to the pixel cells along a data line during a first time of within the horizontal period and applying current signals corresponding the plurality of gamma current signals to the pixel cells along the data line during a second time within the horizontal period after the first time of the horizontal period, wherein each of the plurality of data driving circuits includes a voltage driver that applies the plurality of gamma voltage signals to the data lines to pre-charge the plurality of gamma voltage signals onto storage capacitors in the pixel cells in response to a first level of a control signal during the first time, and a current driver that allows the plurality of gamma current signals to flow into the pixel cells in response to a second level of the control signal during the second time”, **independent**

Claim 13 recites a method of driving an electro-luminescence display device having a combination of elements including, for example, “applying a plurality of gamma voltage value corresponding to image data from a voltage driver to data lines during a first time of within the horizontal period to pre-charge the plurality of gamma voltage value onto storage capacitors of the pixel cells in response to a first level of a control signal during the first time; and applying a plurality of gamma current signals corresponding to the image data to the data lines during a second time within the horizontal period after the first time in response to a second level of a control signal during the second time”. None of Suzuki, Morita and Ishizuka fails to teach, either expressly or inherently, at least these features of the claimed invention.

On page 4 of the Office Action, the Examiner asserted that Morita, Suzuki and Kimura do not teach the data driving circuit applying signals in response to a first level of a control signal and a second level of the control signal, Koyama teaches the switching of dual control signals with a first level (i.e. the switching signal Lo) and a second level (i.e. switching signal Hi) for the data driving circuit supplying signal to an OLED system (i.e. the drawing of figure 3A and 3B shown the switching circuit of figure 1 in action which the switching signal changes the signal that is applied to the circuit at different times of circuit operation) (see Koyama, Fig. 1, 3A, 3B, [0048]), [0106-0112]), therefore it would have been obvious for one of ordinary skill in the art at the time the invention was made to have used the dual signaling switching design of Koyama in the system of Morita in order to increase the aperture ration of the display panel and increase display performance (see Koyama [0024-0026]).

However, in Koyama, the first level of the switching signal output from the switching signal generating circuit 206 drives a source single line corresponding to a pixel Px-i during one frame period F1 (that is, one horizontal period), and the second level of the switching signal output from the switching signal generating circuit 206 drives current supply line corresponding to a next pixel Px during next one frame period F2 (that is, another horizontal period) as known from Figs. 4A and 4B. Accordingly, Koyama fails to teach the switching of a dual control signals with a first level and a second level in one horizontal period.

[Fig. 4b of Koyama]



Accordingly, the combination of the Suzuki, Morita, Kimura, Koyama and Ishizuka cannot teach or suggest the above-mentioned features of the claimed invention because they fail to teach, either expressly or inherently, at least these features of the claimed invention.

As Applicants have presented above, claims 1 and 13 are allowable over Suzuki, Morita, Kimura, Koyama and Ishizuka. Applicants respectfully submit that claims 2, 5-7 and 15 are patentable over Suzuki, Morita, Kimura, Koyama Ishizuka in virtue of dependency from claims 1 or 13.

Applicants believe the application is in condition for allowance and early, favorable action is respectfully solicited.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911.

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Respectfully submitted,

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